1100 & ADA ELECTRONIC CONTROL MODELS

Models Covered

WINE CAPTAIN® MODELS	BEVERAGE CENTER	REFRIGERATOR	ADA HEIGHT COMPLIANT REFRIGERATOR
U-1115WCB-00	U-1175BEVSS-00	U-1115RB-00	U-ADA24RB-13
U-1115WCB-02	U-1175BEVSS-02	U-1115RS-00	U-ADA24RGLB-13
U-1115WCS-00	U-1175BEVSS-13	U-1115RS-01	U-ADA24RGLS-13
U-1115WCS-02	U-1175BEVSS-15	U-1175RB-00	U-ADA24RGLS-15
U-1115WCS-09		U-1175RB-02	U-ADA24RS-13
U-1175WCB-00		U-1175RB-13	U-ADA24RS-15
U-1175WCB-02		U-1175RS-00	
U-1175WCB-13		U-1175RS-01	
U-1175WCS-00		U-1175RS-02	
U-1175WCS-02		U-1175RS-13	
U-1175WCS-13		U-1175RS-15	
U-1175WCS-15		U-1175RW-00	
		U-1175RW-02	
		U-1175RW-13	

PRODUCT LIABILITY POLICY

Field service technicians are authorized to make an initial assessment. If in the servicer's judgment the damage is the result of a product defect, the product would be removed and returned to U-Line in an unaltered condition. The dealer would then be authorized to permanently replace the end-user's product at no cost to the end-user. Please call U-Line immediately at 1-800-779-2547 to initiate the RA and product exchange process.

If in the servicer's judgment the damage is the result of installation issues (water connection/drain, etc.), the consumer would be so notified and the correction would be made by the servicer or installer without requiring removal of the product. Any claim for damages should be directed to the original installer.

Any U-Line unit involved in an alleged property damage claim must remain **unaltered and unrepaired**, for evaluation. No service or repairs should be performed on any unit suspected to be involved in a property damage situation. If a unit has been altered or repaired in the field prior to U-Line's evaluation, any claim for damage may be declined.

If the unit in question is a U-Line CLR or CLRCO **with a drain pump**, both the unit **and** the drain pump (regardless of the manufacturer) must be returned to U-Line Corporation.

To complete the damage claim process for the customer, please obtain the following and forward to U-Line at onlineservice@U-Line.com, fax to 1-414-354-5696 or mail to the address below.

Pictures of the unit, installation and any alleged property damage.

Inquire when the problem first appeared, any prior problems with the product and provide a brief description of the alleged damages.

To expedite the claim process, U-Line will need two damage repair estimates.

Reference the RA number and customer name when providing this information.

If a unit is returned to U-Line, this evaluation will take approximately ten business days. **No field service company is authorized to perform this evaluation**. When a Return Authorization Number is issued, and the unit has been boxed in a U-Line carton, U-Line should be contacted and then will make arrangements for shipping, or designate a truck line to have the unit shipped freight collect.

If U-Line's evaluation finds the unit, (or U-Line P60 pump) to be defective, causing the property damage, the damage claim will be reviewed by the U-Line Customer Assurance Department.

If U-Line's evaluation finds the unit not to be defective, does not repeat a failure or does not leak any water from the U-Line unit or U-Line P60 pump, all claims for damage will be declined.

When a product evaluation is needed, it is the customer's responsibility to assure that the unit is returned for evaluation. If the customer fails to do so, or has the unit repaired in the field prior to U-Line's evaluation, any claim for damage will be declined.

8900 N. 55th St. • P.O. Box 245040
Milwaukee, WI 53224-9540 U.S.A.
1-414-354-0300 • Fax: 1-414-354-7905

Website: u-line.com

Leaders In Quality Undercounter Refrigeration

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General Information

NOTICE

- **PLEASE READ all instructions before installing, operating, or servicing the appliance.**
- **Proper installation procedures must be followed when completing an installation or relocation of a unit. An INSTALLATION GUIDE for the unit, providing complete installation information, is available from U-Line Corporation direct. Consult the installation guide before any installation begins. U-Line contact information appears on the rear cover of this guide.**
- **This unit requires connection to a dedicated 15 Amp grounded (three-prong), polarized receptacle, installed by a qualified electrician, compliant with applicable electrical codes.**

Safety Alert Definitions

Throughout this guide are safety items labeled with a Danger, Warning or Caution based on the risk type:

⚠ DANGER

Danger means that failure to follow this safety statement will result in severe personal injury or death.

⚠ WARNING

Warning means that failure to follow this safety statement could result in serious personal injury or death.

⚠ CAUTION

Caution means that failure to follow this safety statement may result in minor or moderate personal injury, property or equipment damage.

General Precautions

Use this appliance for its intended purpose only and follow these general precautions with those listed throughout this guide:

⚠ DANGER

RISK OF CHILD ENTRAPMENT. Before you throw away your old refrigerator or freezer, take off the doors and leave shelves in place so children may not easily climb inside.

⚠ WARNING

- **SHOCK HAZARD - Electrical Grounding Required.**
- **Never attempt to repair or perform maintenance on the unit until the electricity has been disconnected.**
- **Never remove the round grounding prong from the plug and never use a two-prong grounding adaptor.**
- **Altering, cutting of power cord, removal of power cord, removal of power plug, or direct wiring can cause serious injury, fire and/or loss of property and/or life, and will void the warranty.**
- **Never use an extension cord to connect power to the unit.**
- **Always keep your working area dry.**

⚠ WARNING

Install provided Anti-Tip kit on all Wine Captain Models and Glass Door Refrigerators. Serious personal injury could occur.

⚠ CAUTION

- **Use care when moving and handling the unit. Use gloves to prevent personal injury from sharp edges.**
- **If your model requires defrosting, DO NOT use an ice pick or other sharp instrument to help speed up defrosting. These instruments can puncture the inner lining or damage the cooling unit. DO NOT use any type of heater to defrost. Using a heater to speed up defrosting can cause personal injury and damage to the inner lining.**

NOTICE

- **Do not lift unit by door handle.**
- **Never install or operate the unit behind closed doors. Be sure front grille is free of obstruction. Obstructing free airflow can cause the unit to malfunction and will void the warranty.**
- **Failure to clean the condenser every six months can cause the unit to malfunction. This could void the warranty.**
- **Allow unit temperature to stabilize for 24 hours before use.**
- **Do not Block any internal Fans.**

Use only genuine U-Line replacement parts. Imitation parts can damage the unit, affect its operation or performance and may void the warranty.

Models Covered

This guide covers the following models:

Model	Voltage	Hinge Configuration	Door Configuration	Cabinet Configuration	Reversible Door
U-1115RB-00	120V	Right Hand Hinge	SOLID BLACK	GLASS SHELVES	YES
U-1115RS-00	120V	Right Hand Hinge	SOLID BLACK	GLASS SHELVES	NO
U-1115RS-01	120V	Left Hand Hinge	SOLID STAINLESS	GLASS SHELVES	NO
U-1175RB-00	120V	Right Hand Hinge	SOLID BLACK	GLASS SHELVES	YES
U-1175RB-02	230V	Right Hand Hinge	SOLID BLACK	GLASS SHELVES	YES
U-1175RB-13	120V	Right Hand Hinge	SOLID BLACK W/LOCK	GLASS SHELVES	NO
U-1175RS-00	120V	Right Hand Hinge	SOLID STAINLESS	GLASS SHELVES	NO
U-1175RS-01	120V	Left Hand Hinge	SOLID STAINLESS	GLASS SHELVES	NO
U-1175RS-02	230V	Right Hand Hinge	SOLID STAINLESS	GLASS SHELVES	NO
U-1175RS-13	120V	Right Hand Hinge	SOLID STAINLESS W/LOCK	GLASS SHELVES	NO
U-1175RS-15	120V	Left Hand Hinge	SOLID STAINLESS W/LOCK	GLASS SHELVES	NO
U-1175RW-00	120V	Right Hand Hinge	SOLID WHITE	GLASS SHELVES	YES
U-1175RW-02	230V	Right Hand Hinge	SOLID WHITE	GLASS SHELVES	YES
U-1175RW-13	120V	Right Hand Hinge	SOLID WHITE W/LOCK	GLASS SHELVES	YES
U-1115WCB-00	120V	Right Hand Hinge	GLASS BLACK	WINE RACKS	YES
U-1115WCB-02	230V	Right Hand Hinge	GLASS BLACK	WINE RACKS	YES
U-1115WCS-00	120V	Right Hand Hinge	GLASS BLACK	WINE RACKS	YES
U-1115WCS-02	230V	Right Hand Hinge	GLASS STAINLESS	WINE RACKS	YES
U-1115WCS-09	230V	Right Hand Hinge	GLASS STAINLESS	WINE RACKS	YES
U-1175WCB-00	120V	Right Hand Hinge	GLASS BLACK	WINE RACKS	YES
U-1175WCB-02	230V	Right Hand Hinge	GLASS BLACK	WINE RACKS	YES
U-1175WCB-13	120V	Right Hand Hinge	GLASS BLACK W/LOCK	WINE RACKS	NO
U-1175WCS-00	120V	Right Hand Hinge	GLASS STAINLESS	WINE RACKS	YES
U-1175WCS-02	230V	Right Hand Hinge	GLASS STAINLESS	WINE RACKS	YES
U-1175WCS-13	120V	Right Hand Hinge	GLASS STAINLESS W/LOCK	WINE RACKS	NO
U-1175WCS-15	120V	Left Hand Hinge	GLASS STAINLESS W/LOCK	WINE RACKS	NO
U-1175BEVSS-00	120V	Right Hand Hinge	GLASS STAINLESS	GLASS SHELVES/WINE RACKS	YES
U-1175BEVSS-02	230V	Right Hand Hinge	GLASS STAINLESS	GLASS SHELVES/WINE RACKS	YES
U-1175BEVSS-13	120V	Right Hand Hinge	GLASS STAINLESS W/LOCK	GLASS SHELVES/WINE RACKS	NO
U-1175BEVSS-15	120V	Left Hand Hinge	GLASS STAINLESS W/LOCK	GLASS SHELVES/WINE RACKS	NO
U-ADA24RB-13	120V	Right Hand Hinge	SOLID BLACK W/LOCK	CHROME WIRE SHELVES	NO
U-ADA24RGLB-13	120V	Right Hand Hinge	GLASS BLACK W/LOCK	CHROME WIRE SHELVES	NO
U-ADA24RGLS-13	120V	Right Hand Hinge	GLASS STAINLESS W/LOCK	CHROME WIRE SHELVES	NO
U-ADA24RGLS-15	120V	Left Hand Hinge	GLASS STAINLESS W/LOCK	CHROME WIRE SHELVES	NO
U-ADA24RS-13	120V	Right Hand Hinge	SOLID STAINLESS W/LOCK	CHROME WIRE SHELVES	NO
U-ADA24RS-15	120V	Left Hand Hinge	SOLID STAINLESS W/LOCK	CHROME WIRE SHELVES	NO

Warranty Claims Procedure

NOTICE

Warranty claims must be filed within 60 days after the completion of the service call.

When submitting claims for warranty payment, please follow these guidelines.

You can use any form you would normally use to bill your customer (your own computer generated form, Narda, USA, etc.). Claims can also be filed on-line at u-lineservice.com. Warranty rate mustbe agreed upon before submittal.

The model and serial number **MUST** be on the claims. Claims will not be paid without a model and serial number.

If you used a part in your repair, you **MUST** put the part number, the invoice number and where the part came from. Claims will be returned without this information.

If you work on more than one unit per service call please submit a separate claim for each unit.

We track all defects through warranty claims, so please be specific on what the repair was. If it is a system leak, please specify where the leak was.

Please be sure the claim is legible. If the claim form cannot be read, it will be returned, unpaid.

Remember: Door and water level adjustments are 30 day warranties only.

If you are changing out a unit please supply the model and serial number of both units (the unit being replaced and the new unit) and the R.A. number.

Occasionally the customer does not return their warranty cards. In this case we use the date the unit was shipped to our distributor for a beginning warranty date. This may cause the claim to be rejected for a proof of purchase. If you want to check on a purchase date, you may contact the U-Line Corporation Customer Assurance Department at 1-800-779-2547. This will allow you to get a proof of purchase, if needed, before you submit the claim.

At U-Line, parts and labor claims are paid separately. Included in labor are freon and recovery charges, all other parts are handled by the parts department. We require that some parts be returned to us, so we may return them to our vendor. It will be noted on your packing list if we require you to return the part. If a part is to be returned please include a copy of the packing list and a copy of your claim. If the part was purchased at one of our part distributors, you must handle the part warranty with that company. For labor payment please send a readable copy of your claim to U-Line Corporation, P.O. Box 245040, Milwaukee WI, 53224-9540, U.S.A., or fax it to 1-414-354-5696. Claims can also be filed on-line at u-lineservice.com.

Proof of Purchase

Proof of Purchase and/or Proof of Install is an important part of the warranty claim process. Sometimes it is difficult to obtain a proper Proof of Purchase/Proof of Install for a number of different reasons:

- The customer does not have a copy (only the original).
- The customer has only their copy of the final Walk Through or sign-off of new construction.
- Other valid reasons that prevent your technician from leaving the job site with a suitable Proof of Purchase/Proof of Install.

We understand the problem and have modified our Proof of Purchase policy to help you in these situations.

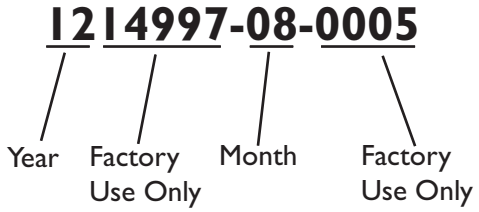
Effective immediately, if a copy of the Proof of Purchase/Proof of Install is not available at the site, the technician should record the following information on the Labor Invoice:

- The name of the selling Dealer
- The date of purchase/installation
- The Order or Invoice number (if available)
- The type of document they saw, i.e. Store Receipt, Closing Papers, Sign-Off of Building Permit, Final Walk Through, etc.

If we have this information on the Labor Invoice, and we have the other information that is needed **(correct Serial Number, type of repair, time spent on repairs, parts used in the repair, invoice number for the part, etc.)**, we will be able to process the invoice for you in a timely manner.

Serial Number

The serial number is divided into four segments. A typical serial number is 0914997-11-0005.



The first two digits of the first segment, 09, represents the year the unit was made.

The next four/five digits of the first segment, 14997, is a factory internal control number used at U-Line Corporation.

The next two digit segment, 11, represents the month the unit was made.

The last four digit segment, XXXX, is a factory internal control number used at U-Line Corporation.

Replacement Parts

How to Order Replacement Parts

In order to purchase parts from U-Line directly, you must have a current re-sale certificate on file. Please go to u-line.com to find a local parts distributor.

1. Refer to Service Parts and locate the illustration(s) for the model you are servicing.
2. Locate the desired part to be serviced and note the item number assigned to it.
3. Locate the item number within the parts list. Note the full description and the corresponding part number. If this is for a warranty unit, indicate and record the model and serial numbers.
4. When ordering parts, it will be necessary to supply Model Number, Serial Number, Part Number, Part Description and in some cases Color or Voltage.

All warranty parts will be shipped at no charge as long as warranty status has been confirmed. If we require that a part be returned to U-Line, you will be informed at the time the order is placed. It will be noted on your packing list if we require you to return a part or if you may field scrap it. If U-Line requires a defective part to be returned, a prepaid shipping label will be included with your new replacement part. When returning parts enclose a copy of your packing list and a copy of your labor claim, showing the model and serial number, and tag or label the part with the nature of the defect.

Our warranty records may not match the customer's information. In this case, a proof of purchase will be required. If you do not have the proof of purchase at the time the order is placed, the part will be sent net 15 days, charged to a Visa or Master Card if you don't have an open account with U-Line Corporation. When the proof of purchase is provided, we will credit your account.

5. Parts may be ordered on-line, by FAX or phone:

u-lineservice.com

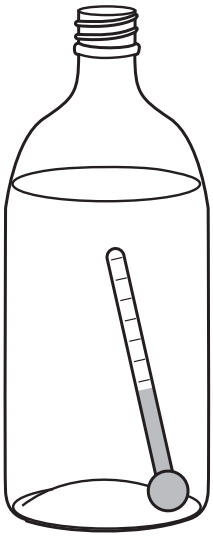
onlineparts@u-line.com

FAX Number 1-414-354-7905

Phone Number 1-414-354-0300 or 1-800-779-2547

REPLACEMENT PARTS: Use only genuine U-Line replacement parts. The use of non-U-Line parts can reduce ice rate, cause water to overflow from ice maker mold, damage the unit, and can void the warranty.

Checking Product Temperature



To check the actual product temperature in the unit.

1. Partially fill a plastic (nonbreakable) bottle with water.
2. Insert an accurate thermometer.
3. Tighten the bottle cap securely.
4. Place the bottle in the desired area for 24 hours.
5. Avoid opening the unit during the testing period.
6. After 24 hours, check the temperature of the water. If required, adjust the temperature control in a small increment (See ADJUSTING THE SET-POINT).

Causes which affect the internal temperatures of the cabinet include:

- Temperature setting.
- Ambient temperature where installed.
- Installation in direct sunlight or near a heat source.
- The number of door openings and the time the door is open.
- The time the internal light is illuminated. (This mainly affects product on the top rack or shelf.)
- The front grille or condenser are obstructed.

Normal Operating Sounds

All models incorporate rigid foam insulated cabinets to provide high thermal efficiency and maximum sound reduction for its internal working components. Despite this technology, your model may make sounds that are unfamiliar.

Normal operating sounds may be more noticeable because of the unit's environment. Hard surfaces such as cabinets, wood, vinyl or tiled floors and paneled walls have a tendency to reflect normal appliance operating noises.

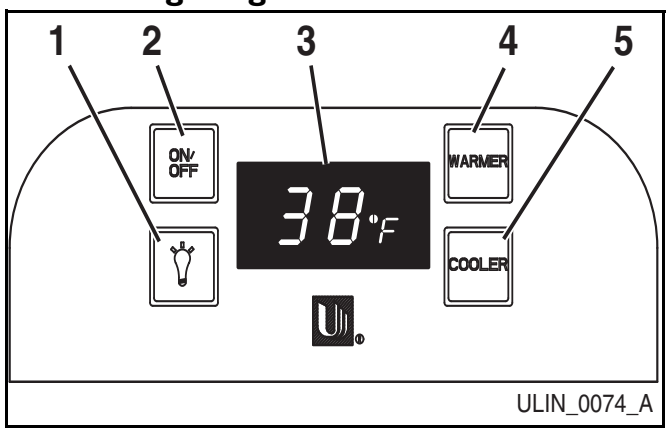
Listed below are common refrigeration components with brief description of the normal operating sounds they make. NOTE: Your product may not contain all the components listed.

- Compressor: The compressor makes a hum or pulsing sound that may be heard when it operates.
- Evaporator: Refrigerant flowing through an evaporator may sound like boiling liquid.
- Condenser Fan: Air moving through a condenser may be heard.
- Automatic Defrost Drain Pan: Water may be heard dripping or running into the drain pan when the unit is in the defrost cycle.

System Default Values

Model	Model Code	Therm Offset	Defrost Length	Defrost Interval	Differential	Set Point
U-1115RB-00	57	-5	60	240	1	38
U-1115RS-00	57	-5	60	240	1	38
U-1115RS-01	57	-5	60	240	1	38
U-1175RB-00	49	-3	45	360	1	38
U-1175RB-02	52	-3	45	360	1	38
U-1175RB-13	49	-3	45	360	1	38
U-1175RS-00	49	-3	45	360	1	38
U-1175RS-01	49	-3	45	360	1	38
U-1175RS-02	52	-3	45	360	1	38
U-1175RS-13	49	-3	45	360	1	38
U-1175RS-15	49	-3	45	360	1	38
U-1175RW-00	49	-3	45	360	1	38
U-1175RW-02	52	-3	45	360	1	38
U-1175RW-13	49	-3	45	360	1	38
U-1115WCB-00	77	-4	45	360	1	50
U-1115WCB-02	78	-4	45	360	1	50
U-1115WCS-00	77	-4	45	360	1	50
U-1115WCS-02	78	-4	45	360	1	50
U-1115WCS-09	78	-4	45	360	1	50
U-1175WCB-00	50	0	45	360	1	50
U-1175WCB-02	53	0	45	360	1	50
U-1175WCB-13	50	0	45	360	1	50
U-1175WCS-00	50	0	45	360	1	50
U-1175WCS-02	53	0	45	360	1	50
U-1175WCS-13	50	0	45	360	1	50
U-1175WCS-15	50	0	45	360	1	50
U-1175BEVSS-00	51	0	45	360	1	38
U-1175BEVSS-02	54	0	45	360	1	38
U-1175BEVSS-13	51	0	45	360	1	38
U-1175BEVSS-15	51	0	45	360	1	38
U-ADA24RB-13	49	-3	45	360	1	38
U-ADA24RGLB-13	49	-3	45	360	1	38
U-ADA24RGLS-13	49	-3	45	360	1	38
U-ADA24RGLS-15	49	-3	45	360	1	38
U-ADA24RS-13	49	-3	45	360	1	38
U-ADA24RS-15	49	-3	45	360	1	38

Interior Lighting



Normal Operation. Opening the door will cause the interior of the cabinet to illuminate.

Use the LIGHT button (1) on the control panel to change the lighting functions.

Timed Lighting. For Wine Captain Models and Beverage Centers the interior of the cabinet is illuminated for a timed four-hour period.

1. Press and release the LIGHT button (1) (the °F symbol will flash briefly) to switch from door-operated lighting control to the timed four hour lighting period.
2. At the end of the four-hour period, the light will turn OFF and door-operated lighting control will resume.
3. To exit the timed lighting control before the end of the four-hour period, repeat Step 1.

Blackout (Sabbath) Mode. The interior of the cabinet and control display remains darkened for a 36-hour period (Blackout (Sabbath) Mode is not Star K certified).

To turn the lights and display OFF for a preset 36-hour interval.

1. Press and hold the LIGHT button (1) for ten seconds and release (the °F symbol will flash briefly at the end of the ten second period).
2. The interior light and control display (3) will go dark for the next 36 hours.
3. NOTE: Although the display will not be visible, the temperature controls in the unit remain active, and preserve the interior temperature.

To exit the Blackout (Sabbath) Mode before the 36-hour period, repeat Step 1.

1000 Series Electronic Control

1000 Series Keypad Options

⚠ DANGER

Electrocution can cause death or serious injury. Burns from hot or cold surfaces can cause serious injury. Take precautions when servicing this unit.

- ***Disconnect the power source.***
- ***Do not stand in standing water when working around electrical appliances.***
- ***Make sure the surfaces you touch are not hot or frozen.***
- ***Do not touch a bare circuit board unless you are wearing an anti-static wriststrap that is grounded to an electrical ground or grounded water pipe.***
- ***Handle circuit boards carefully and avoid touching components.***

NOTICE

See "1000 Series Electronic Control Quick Reference Guide" on page 10.

Note: When touching key combinations in which you hold one key and press another three times it is important to carefully follow the procedure.

1. Hold the desired key.
2. Press the other key three times.
3. Release the held key only after releasing the touched key for the third time.

Except as noted, these functions are available on all models.

ON/OFF

The ON/OFF mode allows the unit to be turned on and off via the keypad. To do this, hold the key for approximately 10 seconds until the "F" begins to flash. Release and the unit will switch modes. In the OFF position the cabinet light will remain operational. This mode does not disconnect power from the circuit board so it is still "live."

Cabinet Light

On units with glass doors, touching the LIGHT key will turn on the cabinet light for four hours at a time. Touching the key again will turn the light off. Using the cabinet light for more than four hours may be detrimental to the cabinet temperature and product. **Only available on 1175BEV, 1115WC and 1175WC models.**

Adjusting the Set-Point

To adjust the set-point press and release either the WARMER or COLDER key. This will start the set-point flashing. While in this mode you can adjust the set-point warmer or colder until the desired temperature is reached. The factory recommended set-point is 38°F for refrigerators/refrigerator-freezers and 50°F for Wine Captain®. When adjustment is complete stop touching the display and the set-point will be saved in approximately five seconds.

Viewing Actual Temperature

To view the thermistor temperature, hold the WARMER key for approximately five seconds until the "F" flashes. Release and the display will show the corrected refrigerator temperature. For Wine Captain® models the display will cycle through all three zones. These temperatures are approximate and calibrated for a cabinet in normal ambient temperatures with some product load. Checking a completely unloaded cabinet may result in other temperatures or inaccurate readings.

Changing from Fahrenheit to Celsius

To change the displayed temperature from °F to °C, hold the LIGHT key and press COLDER three times. This will change all values to °C. When the key combination is accepted the control will change values.

Showroom Mode

This mode is designed to show units in a display environment. When in this mode the only functions will be the control and cabinet lights. The compressor, fans, etc. will not operate. To enter this mode hold the COLDER key and press the LIGHT button three times. Once entered, the degree symbol will begin to flash. When the degree symbol is flashing the unit will allow the use of the control for demonstrations. After not touching the unit for one minute the display will begin to "snake" around. This is meant to alert you the unit is in showroom mode. The unit can be left in this mode indefinitely. If you again want to demo the control, touch any key and the degree symbol will begin to flash. To exit this mode: This mode needs to be exited by the same key combination as used to enter the mode.

Service Mode

This mode has 16 different options available for service diagnostics. To enter the mode hold the WARMER key and press the LIGHT button three times. The display will show "0." When in this mode the WARMER and COLDER keys will act as up and down arrows to select the desired option. The LIGHT key is the ENTER key and will enter a function. If changing a setting, you must press the LIGHT key again to retain the changed setting. To exit the service mode scroll to option 99 and press the LIGHT key. After five minutes of not touching any keys the mode will also exit automatically.

Display Toggle

On glass door units the display normally stays on all the time. To have the display go off with the door, press the up arrow and touch the ON/OFF key three times. The °F sign will flash to let you know the mode has been accepted. This mode can be toggled on or off by the same key combination. To see if the display should be staying on 100% or turning off with the door, you can check service option 8. **Only glass door models.**

Blackout Mode

Hold the LIGHT key for 10 seconds until the °F starts flashing. When released, the unit will beep once and the display and cabinet light will shut off. It will stay off for 36 hours, at which time it will automatically turn back on. If desired, you can manually cancel this mode by touching the LIGHT button. Release and the unit will automatically start normal operation.

Model Number Change
1000 Series Model Selection:

1. Make sure board is not plugged in.
2. Hold down ON/OFF key and plug in unit.
3. Release ON/OFF key.
4. Press and release LIGHT icon.
5. Use WARMER/COLDER to select the model number desired.
   - 49-1175R/ADA24R 120V
   - 50-1175WC 120V
   - 51-1175BEV 120V
   - 52-1175R 220V
   - 53-1175WC 220V
   - 54-1175BEV 220V
   - 56-1115R 120V
   - 57-1115R 220V
   - 77-1115WC 120V
   - 78-1115WC 220V
6. Press and release LIGHT icon.
7. Wait for display to stop.
8. Unplug unit and wait 5 seconds.
9. Plug unit back in.

1000 Series Service Menu

Enter service menu by holding WARMER and pressing LIGHT three times. Select option 1 to 16 with the WARMER and COLDER keys. To enter the option, press the LIGHT key. If changing a setting, you must press the LIGHT key again to retain the changed setting.

When entering service mode all other modes are cancelled and the unit will stop operating. When exiting service mode the unit will begin to operate normally, however the four-minute compressor off cycle still applies.

1. Light all LED segments

This will illuminate all the LEDs on the board to ensure they work properly.

2. Thermistor 1 status—Temperature, E1, or E2

This will show the pure thermistor reading with no offsets taken into account. When placed in ice water this thermistor should read 32°F in this menu option.

3. Error log

A list of the errors in the order they occurred will scroll once on the display. Repeat if desired. Once viewed perform option 12 to clear the errors from memory.

4. Defrost information

Displays the number of defrosts that have occurred in the past 24 hours.

5. Compressor runtime based on last cycle

This will show the number of minutes the compressor has run in the prior cycle (or current cycle if the compressor was running when service mode was entered).

6. Defrost length adjust min—99 minutes

The length of the defrost can be adjusted up to 99 minutes long (for every six hours). The other defrost parameters still apply. Lengthening a defrost may cause higher than normal temperatures in the refrigerator section.

7. Light switch 1 status—0 or 1

This will tell if the light should turn off with the door switch or not. At the "0" reading the light should be off with the door closed and on with the door open. At the "1" reading the light stays on always.

8. Display toggle status—0 or 1

This will tell if the display should turn off with the door switch or not. At the "0" reading the light should be off with the door closed and on with the door open. At the "1" reading the light stays on always.

9. Restore factory defaults

This will restore the default set-point, defrost and offset values.

10. Adjust thermistor 1 offset—-10 to +10F

This allows calibration of the sensor to cabinet for abnormal operations. By adjusting this number colder you can change the average cabinet temperature to a colder value.

11. Data download

Along with the separate USPY software you can download the rolling data file.

12. Clear error log

Perform this operation after checking the errors.

13. Clear download memory

Clears the rolling data file if desired.

14. Model number displayed

Displays the two-digit model number of the specific unit.

15. Adjust thermistor 1 differential

This number should not be adjusted.

16. Software number

This will show the software on the board.

Error Codes

E1 Thermistor 1 is open.

E2 Thermistor 1 is shorted.

E3 Main door or bottom drawer is open longer than 20 minutes.

E4 Compressor had 100% runtime between two defrost cycles.

E5 Thermistor 1 out of range + 10°F for more than 12 hours.

E6 Thermistor 1 out of range -10°F for more than 12 hours.

All errors show up on display alternating between SP and the actual code.

1000 Series Electronic Control Quick Reference Guide

	Task	Touch	Touch	Display	Comment
	Adjust Setpoint	WARMER or COOLER	WARMER or COOLER	38°F	Touch once to get into set mode, then touch to adjust
	View Actual Temp	WARMER Hold 5 seconds		°F	WC will scroll Top/Mid/Bot temperatures.
1	Change F/C	Hold	COOLER COOLER COOLER	3°C or 38°F	
2	Service Mode	WARMER Hold		0	Times out after 5 minutes. Use warmer or colder to scroll, light button to view.
3	Show Room Mode Toggle	COOLER Hold		-88°F	Degree symbol flashes at first, then display snakes all LEDS after one minute of inactivity. Same key combination to remove.
4	Display Toggle	WARMER	ON/OFF ON/OFF ON/OFF		Display control LEDS while door is closed. (Glass Door Models Only)
5	Blackout Mode	Hold 10 seconds			Stays off 36 hours or use light button to restore lights and display
6	Change Model	ON/OFF Hold while plugging in		50	
7	Turn ON/OFF	ON/OFF Hold 10 seconds		OFF or 38°F	
8	Cabinet Light	Touch & Release			Light normally goes on/off with door opening. Pressing light button will turn interior light on for 4 hours then it will turn off.

Service Mode Listing

- 01 Light all LED segments
- 02 Thermistor Status
- 03 Error Log
- 04 Defrost Info (# in past 24 hours)
- 05 Comp on time since last cycle
- 06 Defrost Length
- 07 Light Switch Status (0-toggle w/door 1-on always)
- 08 Display Status (0-toggle w/door 1-on always)
- 09 Restore Defaults (includes logs)
- 10 Adjust Offset
- 11 Data Download
- 12 Clear Error Log
- 13 Clear Download Memory
- 14 Display Model Number
- 15 Adjust Differential (use light & on/off key)
- 16 Display Software version
- 99 Exit Service Mode

Origins Model Selection:

1. Make sure unit is not plugged in.
2. Hold down on/off key and plug in unit.
3. Release on/off key.
4. Press and release light key.
5. Use warmer/colder to select the model number desired.
   a. 49-1175R 120V ADA24R 120V
   b. 50-1175WC 120V
   c. 51-1175BEV 120V
   d. 52-1175R 220V
   e. 53-1175WC 220V
   f. 54-1175BEV 220V
   g. 56-1115R 120V
   h. 57-1115R 220V
   i. 77-1115WC 120V
   j. 78-1115WC 220V
6. Press and release light key.
7. Wait for flashing to stop.
8. Unplug unit-wait 5 seconds.
9. Plug unit back in.

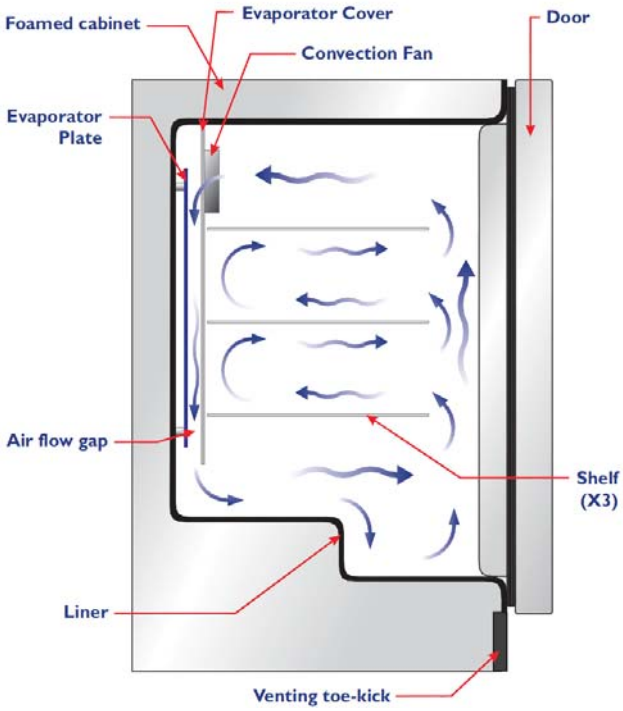
Error Codes

E1 - Thermistor open
E2 - Thermistor shorted
E3 - Door open longer than 20 minutes
E4 - # of defrost intervals with 100% run
E5 - Actual temp 10 degrees over setpoint for more than 6 hours
E6 - Actual temp 10 degrees under setpoint for more than 6 hours

Convection Cooling

Models equipped with a convection cooling system use an evaporator fan to circulate cool air through the refrigerated zone and an evaporator plate to isolate the evaporator from the rest of the refrigeration zone. The evaporator cover is easily removed. Fan operates with the door switch.

Convection Cool units are available with solid or glass doors.

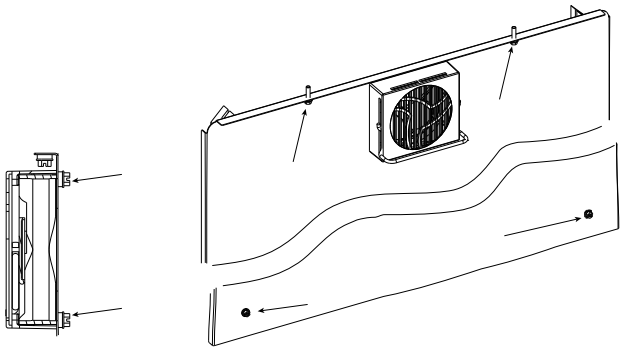


Evaporator Fan Replacement

- **Remove the back panel.**
- **Unplug the evaporator fan motor.**
- **Remove the shelves.**
- **Remove 2 screws at the top of the evaporator cover.**
- **Remove 2 screws at the bottom of the evaporator cover.**
- **Carefully remove the cover with fan, being careful not to pull wire out of fan.**
- **Remove 4 screws from inside of cover.**
- **Remove evaporator fan and replace.**
- **To assemble replace parts in reverse order.**

NOTICE

Do not plug fan in until evaporator cover is in place. The wire could be pulled off of the fan motor.



Standard Doors

Door Alignment and Adjustment

Align and adjust the door if it is not level, or is not sealing properly. If the door is not sealed the unit may not cool properly, or excessive frost may form in the interior.

NOTICE

Properly aligned, the door's gasket should be firmly in contact with the cabinet all the way around the door (no gaps). Carefully examine the door's gasket to assure that it is firmly in contact with the cabinet. Also make sure the door gasket is not pinched on the hinge side of the door.

To align and adjust the door.

7. Loosen (do not remove) top and bottom hinge screws.
8. Align door squarely with cabinet.
9. Make sure gasket is firmly in contact with cabinet all the way around the door (no gaps).
10. Tighten bottom hinge screws.
11. Tighten top hinge screws.

Door Reversability

(Does not apply to ADA or lock units)

Location of the unit may make it desirable to mount the door on the opposite side of the cabinet.

Models with black and white doors are field-reversible.

Stainless steel models with glass doors without locks are field-reversible. See the table at the front of this book for a summary of units that are reversible.

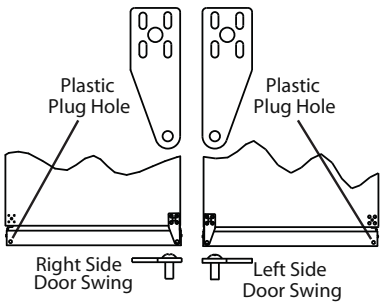
Stainless steel models without glass doors must be ordered right- or left-hand hinged.

Reversing the Door

(Does not apply to ADA or lock units)

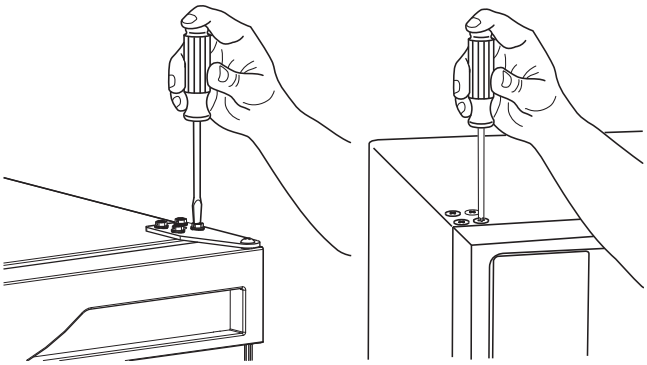
The hinge hardware will be removed and reinstalled on the opposite side of the cabinet.

The hinge plate is flipped over when it is reinstalled on the opposite side of the cabinet.



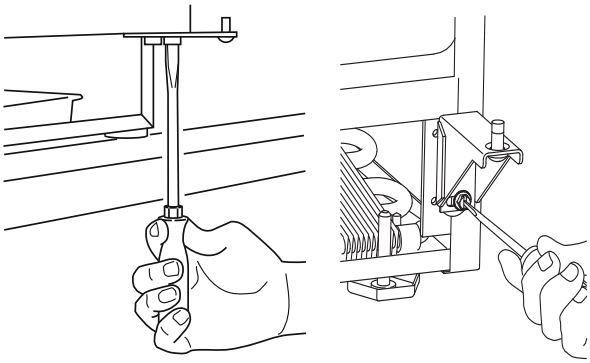
Remove grille.

Remove the grille, see MAINTENANCE section of this guide.



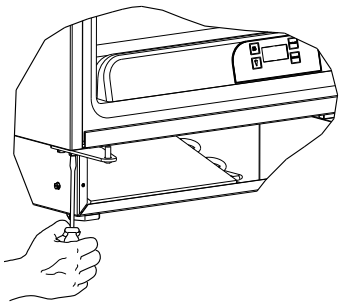
Remove top hinge, and door.

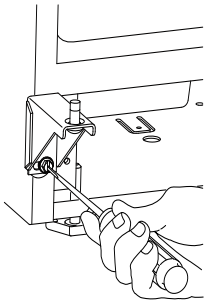
1. Hold door to keep it from falling.
2. Remove top hinge from cabinet by removing three or four screws, depending on model.
3. Remove door by tilting forward and lifting door off bottom hinge.
4. Remove three or four plastic screw plugs from hinge holes on the opposite side. Reinstall into holes where the hinge was removed. Ensure not to scratch cabinet.



Remove bottom hinge.

1. Remove bottom hinge from cabinet. Some models will have a gusset with two screws. Other models will have a plate with three screws.
2. Remove corresponding screws on opposite side of cabinet. On some models there may be a nut behind one or both screws on either side.

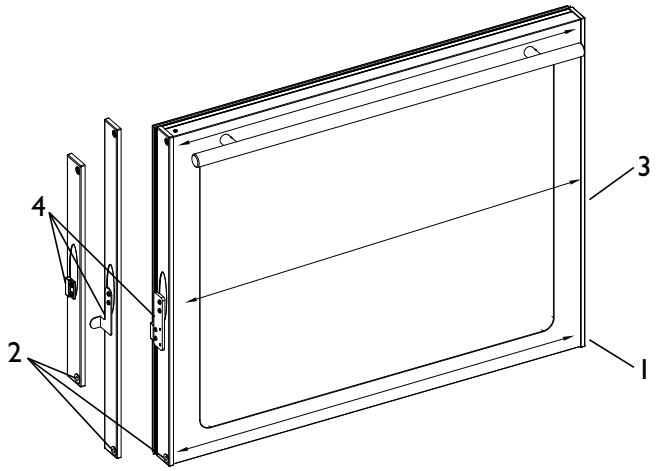




Install bottom hinge.

1. If you have a plate hinge, reorient the pivot screw so it protrudes the opposite direction from the hinge. Remove the pivot screw from the hinge. Turn the plate over and reinstall the screw.
2. Align hinge outer edge with cabinet. For models with a plate hinge, the flat edge of the hinge alignes with the outer edge of the cabinet.

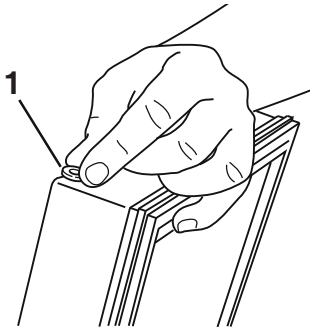
Install two or three screws, depending on model. Replace nuts if used.



Prepare door for reinstallation.

For stainless steel models with glass doors:

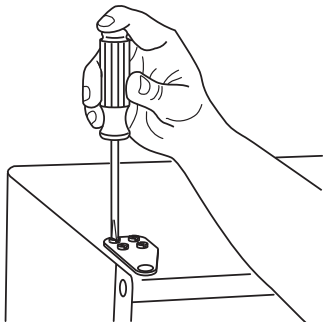
1. Stainless glass doors are flipped upside down to be reversed.
2. Lay the door on its side. Remove the plastic hole plug (1) and install in the corner opposite of where it was removed.
3. Remove the plastic hinge bushing (2) and install in the corner opposite of where it was removed.
4. Remove the U-Line nameplate (3) from door. This will reveal mounting holes for the door actuator bracket.
5. Remove door actuator (4) from door. Be sure to only remove the two screws holding the actuator to the door. Reinstall the actuator (4) on the opposite end of the door where the nameplate was removed.
6. Install new nameplate where the actuator assembly was removed.
7. Install screws into holes on opposite side, where the hinge was removed. Replace nuts if used.



Prepare door for reinstallation.

For black or white doors:

1. Remove plastic hinge bushing on bottom of door and reinstall on opposite side. Clean out bushing hole in door bottom with a screwdriver if necessary.



Install top hinge and door.

1. Reorient the pivot screw so it protrudes the opposite direction from the hinge. Remove the pivot screw from the hinge. Turn the plate over and reinstall the screw.
2. Hold door to keep it from falling.
3. Lift the door onto the bottom hinge.
4. Align flat edge of the top hinge with the outer edge of the unit.
5. Install three or four screws, depending on model.

Align and adjust the door.

1. Align and adjust the door, see DOOR ALIGNMENT AND ADJUSTMENT.

Install grille.

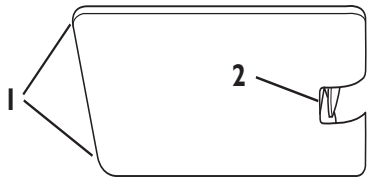
Install the grille, see MAINTENANCE section of this guide.

Maintenance

Lightbulb Replacement

To replace the lightbulb in your U-Line unit:

1. Find the light located at the top of the unit. Grasp the edges of the light housing lens **(1)** opposite the exposed tab and gently push the lens toward the tab **(2)**.
2. Pull the edge of the lens down **(1)** and swing it out of the light housing.



NOTICE

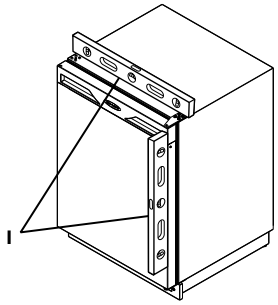
ALWAYS use a genuine U-Line replacement 120V 10 watt bulb (Part Number 31317) in the light housing. Use of any other bulb within the housing will produce excessive heat, causing damage to the light housing and cabinet interior, and will compromise the precise temperature control of the unit.

1. Replace the lens by first inserting the tab side back into the housing at a slight angle.
2. While gently pushing the lens towards the tab end, push the free end into the housing, and release when you hear a snap.

Leveling

NOTICE

Unit must be level, for proper door and ice maker (if equipped) operation.



For Models with adjustable leveling feet:

1. Use a level to check the levelness of the unit from front to back and from side to side. Place the level along top edge and side edge as shown **(1)**.
2. If the unit is not level, rotate the adjustable leveling legs to raise or lower each corner of the unit **(5)** as necessary.
3. Check levelness after each adjustment and repeat the previous steps until the unit is level.

Removing and Installing Grille

⚠ WARNING

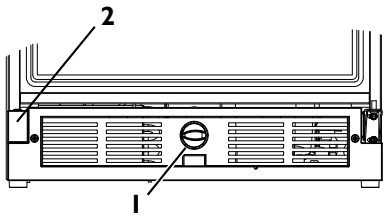
Disconnect electric power to the unit before removing the grille.

⚠ CAUTION

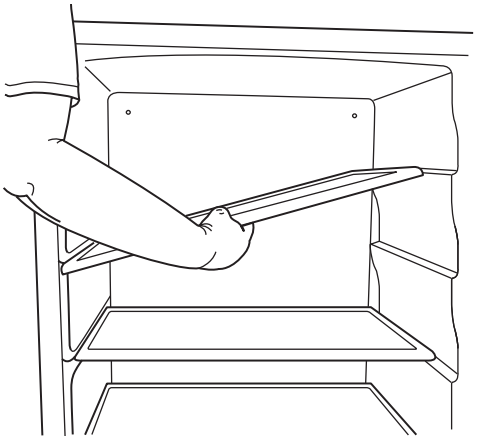
DO NOT touch the condenser fins (4). The condenser fins are SHARP and can be easily damaged.

Removing the grille.

1. After disconnecting the power to the unit, remove the grille mounting screws.
2. If there is a control knob **(1)** mounted in the grille it will pull straight off.
3. Some grilles are equipped with a plastic filler **(2)** on the non-hinge side.



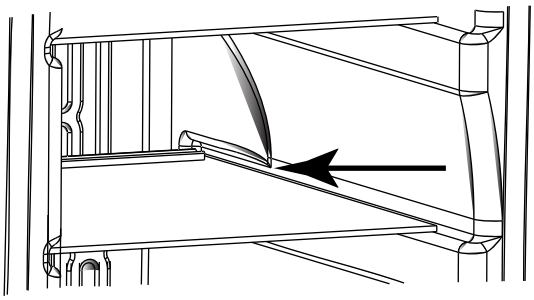
Removing and Installing Interior Shelves



On the right side of the inner liner, there is a retention groove molded into the side wall. Please slide the shelf from the unit.

NOTICE

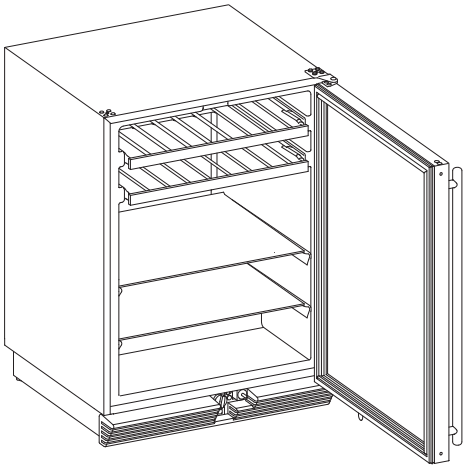
Some wire shelves have a retaining clip that will need to be removed to allow the shelf to slide forward.



NOTICE

- **Make sure the shelves are inserted fully into the unit.**

  The edge strip toward the rear prevents cans and bottles from freezing against the cold evaporator.



For models equipped with glass shelves having shelf supports, remove the shelves as follows:

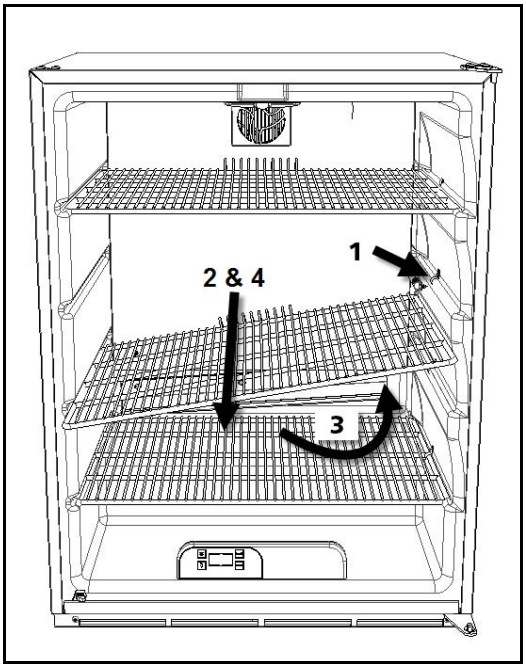
1. Open door completely.
2. Grasp the shelf edge in the center and slide the shelf from the unit.

Insert the shelves as follows:

Reposition the shelf as required, ensure the raised white edge strip is toward the rear of the unit and graphics, if applied, are on the underside of the shelves.

Wire Shelf Removal/Installation

For ADA models equipped with wire racks, reposition the shelves as follows:



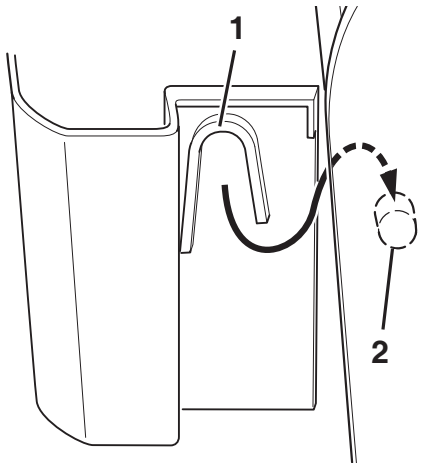
1. Remove shelf retention clip.
2. Pull shelf out about 6" **(1)**, until back of shelf clears the “hump” on the right-hand side.
3. Tilt up right-hand edge of shelf **(2)**.
4. Remove shelf from unit by pulling out **(3)**.

Insert the shelves as follows:

1. To move to a different position in the unit, insert shelf at an angle, approximately 15-20°, over the rib in the side of the unit where you want to place the shelf. The shelf must be started into the unit at an angle to clear the door.
2. Continue to slide the shelf into the unit at an angle until it clears the door.
3. Lower the shelf and push it in completely.

Install shelf retention clip.

Removing and Installing Door Shelves



For models equipped with door shelves:

To remove the door shelf:

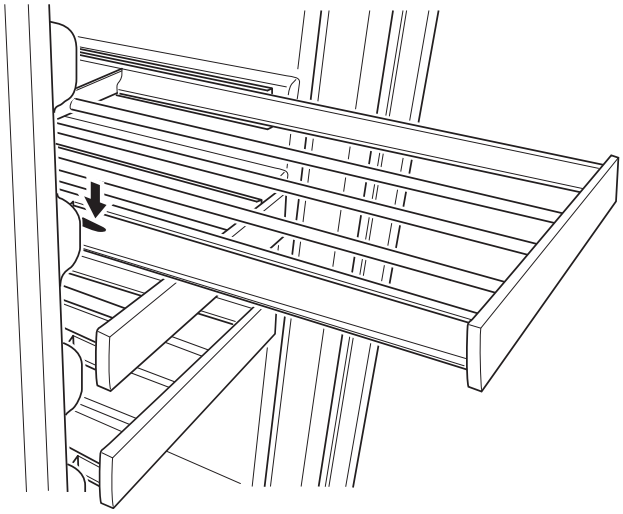
1. Grasp shelf in center, and lift until the shelf notches **(1)** clear the pins **(2)**.
2. Carefully pull the shelf away from the door.

To install the door shelf:

1. Holding the shelf in the center, center the shelf in the door at the desired location, slightly above the pins **(2)**.
2. Lower the shelf onto the pins **(2)**.

Removing and Installing Wine Racks

1. Remove any bottles stored on the rack.
2. Grasp the end of the rack, and gently slide it out until it stops



3. Press the left rack release lever down. At the same time, lift the matching right rack release lever up. Pull the rack out until it is free of the tracks and the cabinet.

NOTICE

Do not remove the track rails from the cabinet.

To insert a rack in the cabinet:

Align the left and right rack channels with the tracks in the cabinet. Ensure an even track engagement on both sides by gently pushing the rack into the cabinet until it stops.

Before reloading the rack, ensure proper movement of the travel stops in the left and right track rails by pulling the rack out gently until it stops.

Customer Call Guide

U-Line's warranty does not cover customer education calls. It has been reported that as high as 50% of all service calls performed are customer education calls.

The following guide has been developed to help answer frequently asked questions. It can be used by persons scheduling service calls. Things to consider before scheduling a service call been developed to help answer frequently asked questions. It can be used by persons scheduling service calls. Things to consider before scheduling a service call

Concern	Response
The unit is not cold enough.	• Are you familiar with the factory temperature specifications for your unit? Many factors can cause these temperatures to vary; ambient temperature, application, amount of use (number of times and length of time the door or drawers or opened and closed), etc. • Is the door or drawers sealing properly? If the door or drawer is not sealed properly, it allows heat into the unit. U-Line's warranty is 90 days for door or drawer adjustments. • Has the door or drawers been left open? • Is the condenser clean? U-Line's warranty does not cover cleaning the condenser. • Is the unit behind closed doors or the vent restricted? The front grille must be free of obstruction. • Is the unit in an application of heavy usage? Heavy usage or high ambient temperatures will cause a unit to frost up. • Did you try adjusting the temperature to a colder level? Adjust to a colder level. Be sure to allow 24 hours between temperature control adjustments.
Temperature is too cold.	• Check actual temperature versus set-point. • Did you try adjusting the temperature to a warmer level? Adjust to a warmer level. Be sure to allow 24 hours between temperature control adjustments.
The unit is frosting up.	• Are you familiar with the defrost technology of your unit? • Is the door or drawers sealing properly? If the door or drawer is not sealing properly, it allows heat/humidity into the unit. U-Line's warranty is 90 days for door or drawer adjustments. • Has the door or drawers been left open? • Is the unit in an application of heavy usage? Heavy usage or high ambient temperatures will cause a unit to frost up.

Compressor Information

Cooling process

Refrigerant is pumped from the compressor to the condenser as a high pressure, high temperature vapor.

As the refrigerant cools in the high pressure condenser, the vapor condenses to liquid. During this phase change, a great amount of heat is rejected with the help of the condenser fan.

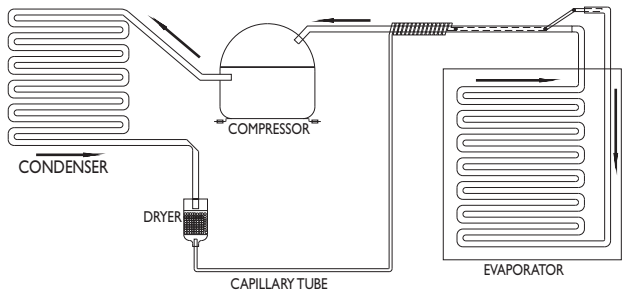
The liquid then flows to the dryer where it is strained and filtered.

From the dryer, the refrigerant flows through the capillary tube which meters the liquid refrigerant to the evaporator.

The pressure of the refrigerant is reduced to the evaporating or low side pressure.

The reduction of pressure on the liquid refrigerant causes it to boil or vaporize until it reaches saturation temperature. As the low temperature refrigerant passes through the evaporator coil, it continues to absorb a lot of heat, causing the boiling action to continue until the refrigerant is completely vaporized. It is during this phase that the most heat is absorbed (the cooling takes place) in the refrigerator.

The refrigerant vapor leaving the evaporator travels through the suction line to the compressor inlet. The compressor takes the low pressure vapor and compresses it, increasing both pressure and temperature. The hot high pressure gas is pumped out the discharge line and into the condenser. The cycle continues.



Compressors

DANGER

Electrocution can cause death or serious injury. Burns from hot or cold surfaces can cause serious injury. Take precautions when servicing this unit.

- ***Disconnect the power source.***
- ***Do not stand in standing water when working around electrical appliances.***
- ***Make sure the surfaces you touch are not hot or frozen.***
- ***Do not touch a bare circuit board unless you are wearing an anti-static wrist strap that is grounded to an electrical ground or grounded water pipe.***
- ***Handle circuit boards carefully and avoid touching components.***

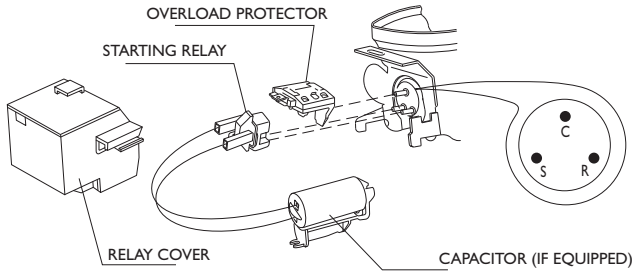
To measure the start winding resistance, measure across the C and S pins.

To measure the run winding resistance, measure across the C and R pins.

Also check S to R and you should get the sum of the run and start windings.

To ensure the windings are not shorted, check the S and R to ground.

	EMI30HER	EMU30HSC	EMU40HNP
Voltage	115	115	220
Frequency	60	60	50
Start Winding	21.20	7.0	40
Run Winding	7.9	8.4	30



Refrigeration System Diagnosis Guide

System Condition	Suction Pressure	Suction Line	Compressor Discharge	Condenser	Capillary Tube	Evaporator	Wattage
Normal	Normal	Slightly below room temperature	Very hot	Very hot	Warm	Cold	Normal
Overcharge	Higher than normal	Very cold - may frost heavily	Slightly warm to hot	Hot to warm	Cool	Cold	Higher than normal
Undercharge	Lower than normal	Warm - near room temperature	Hot	Warm	Warm	Extremely cold near inlet - outlet below room temperature	Lower than normal
Partial Restriction	Somewhat lower than normal - in vacuum	Warm - near room temperature	Very hot	Top passes warm - lower passes cool (near room temperature due to liquid	Room temperature (cool) or colder	Extremely cold near inlet - outlet below room temperature backing up	Lower than normal
Complete Restriction	In deep vacuum	Room temperature (cool)	Room temperature (cool)	Room temperature (cool)	Room temperature (cool)	No refrigeration	Lower than normal
No Gas	0 PSIG to 25"	Room temperature (cool)	Cool to hot	Room temperature (cool)	Room temperature (cool)	No refrigeration	Lower than normal

Thermistors

Type 2 thermistors are used for various temperature readings. Thermistors provide reliable temperature readings using a resistance which varies based on surrounding temperatures. If a faulty thermistor is suspected it may be tested using an accurate ohm meter. In ice water (32°F) resistance should measure 16.1 kilohms,

5K Ohms - 70°F ambient
16.1K Ohms - 32°F ambient

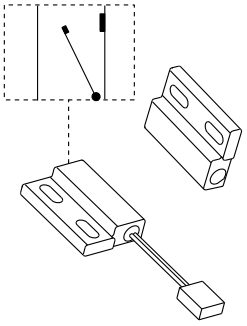
Thermistor Failure

Thermistor 1 (T1)

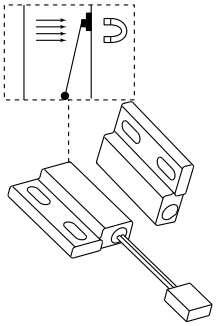
If thermistor 1 (T1) fails, the unit will continue to operate on a preset time interval of 10 minutes on and 30 minutes off. The unit will otherwise operate normally. The display will show "ER".

Reed Switch

A reed switch is mounted to the underside of each cabinet and a magnet is mounted to the door. When the door is closed, magnetic force pulls the reed to its contact and closes the circuit which turns the light and display off. When the door is open, the reed pulls away from its contact and opens the circuit. If the door or drawers are left open for longer than 5 minutes, the switch will trigger an error code and set an audible warning.



Magnet Away From Switch
(Door Open)
(Switch Open)

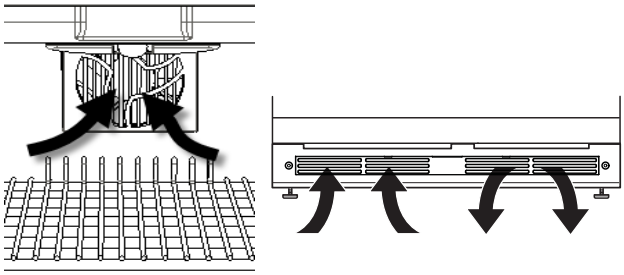


Magnet Close To Switch
(Door Closed)
(Switch Closed)

Air Flow

NOTICE

The unit requires proper air flow to perform at its highest efficiency. Do not block the front grille or internal fans at any time, or the unit will not perform as expected. Do not install the unit behind a door.



Service

Before Calling for Service

If you think your U-Line product is malfunctioning, read the OPERATION section of this guide to understand clearly the function of the control.

If the problem persists, read the NORMAL OPERATING SOUNDS and TROUBLESHOOTING GUIDE section of this guide to help you quickly identify common problems, and possible causes and remedies. Most often, this will resolve the problem without the need to call for service.

If Service is Required

If you do not understand a troubleshooting remedy, or your product needs service, contact U-Line Corporation directly.

Phone 1-800-779-2547
FAX 1-414-354-5696
Email: onlineservice@u-line.com
u-lineservice.com

When you call, you will need your product Model and Serial Numbers. This information can be recorded inside the front cover of this guide. It also appears on the Model and Serial number plate located on the upper right or rear wall of the interior of your product.

Cleaning

Exterior Cleaning

Vinyl Clad (Black or White) Models:

- Clean surfaces with a mild detergent and warm water solution. Do not use solvent-based or abrasive cleaners. Use a soft sponge and rinse with clean water. Wipe with a soft, clean towel to prevent water spotting.
- Clean any glass surfaces with a non-chlorine glass cleaner.

Stainless Models:

- Stainless door panels, handles and frames can discolor when exposed to chlorine gas, pool chemicals, saltwater or cleaners with bleach.
- Keep your stainless unit looking new by cleaning with a good quality all-in-one stainless steel cleaner polish monthly. For best results use Claire® Stainless Steel Polish and Cleaner, which can be purchased from U-Line Corporation (Part Number 173348). Comparable products are acceptable. Frequent cleaning will remove surface contamination that could lead to rust. Some installations may require cleaning weekly.
- **Do not clean with steel wool pads.**
- **Do not use stainless steel cleaners polishes on any glass surfaces.**
- Clean any glass surfaces with a non-chlorine glass cleaner.
- **Do not use cleaners not specifically intended for stainless steel on stainless surfaces (this includes glass, tile and counter cleaners).**
- If any surface discoloring or rusting appears, clean it quickly with Bon-Ami® or Barkeepers Friend Cleanser® and a nonabrasive cloth. Always clean towards the grain. Always finish with Claire Stainless Steel Polish and Cleaner or comparable product to prevent further problems.
- **Using abrasive pads such as Scotchbrite™ will cause the graining in the stainless to become blurred.**
- Rust not cleaned up promptly can penetrate the surface of the stainless steel and complete removal of the rust may not be possible.

Interior Cleaning

- **Disconnect power to the unit.**
- Clean the interior and all removed components using a mild nonabrasive detergent and warm water solution applied with a soft sponge or non-abrasive cloth.
- Rinse the interior using a soft sponge and clean water.
- **Do not use any solvent-based or abrasive cleaners.** These types of cleaners may transfer taste to the interior products and damage or discolor the interior.

Defrosting

Automatic Defrost Models

Frost on the rear wall is normal and will melt during each off cycle. If there is excessive build-up of 1/4" or more, manually defrost the unit.

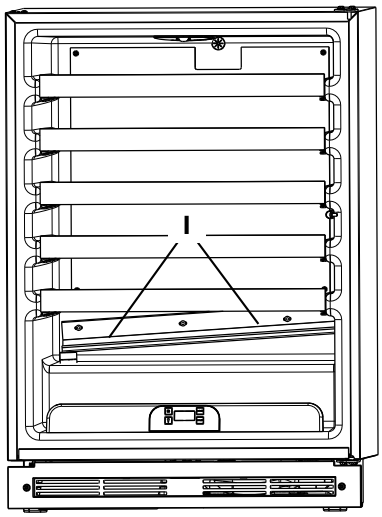
- Ensure the door is closing and sealing properly.
- High ambient temperature and excessive humidity can also produce frost.

⚠ CAUTION

DO NOT use an ice pick or other sharp instrument to help speed up defrosting. These instruments can puncture the inner lining or damage the cooling unit. DO NOT use any type of heater to defrost. Using a heater to speed up defrosting can cause personal injury and damage to the inner lining.

NOTICE

The drain pan was not designed to capture the water created when manually defrosting. To prevent water from overflowing the drain pan, place towels or other absorbent materials over the interior drain trough, under the evaporator (1), before defrosting.



To defrost:

1. **Disconnect power to the unit.**
2. Remove all products from the interior.
3. Prop the door in an open position (2 in. [5 cm] minimum).
4. Allow the frost to melt naturally.
5. After the frost melts completely clean the interior and all removed components. (See INTERIOR CLEANING)
6. When the interior is dry, reconnect power and turn unit on.

Condenser Cleaning

Interval - Every Six Months

To maintain operational efficiency, keep the front grille free of dust and lint, and clean the condenser every three months. Depending on environmental conditions, more or less frequent cleaning may be necessary.

⚠ WARNING

Disconnect electric power to the unit before cleaning the condenser.

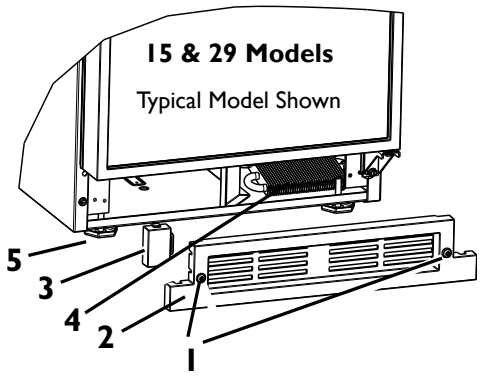
⚠ CAUTION

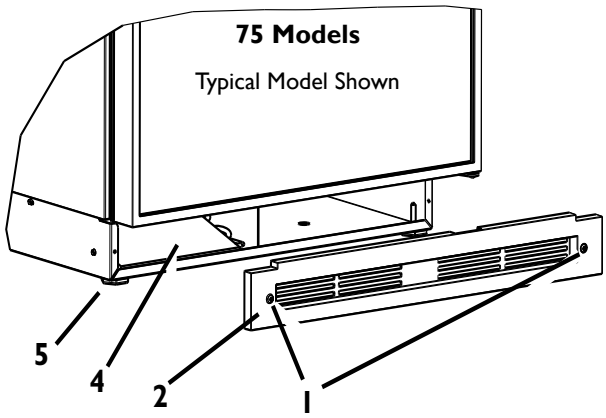
DO NOT touch the condenser fins. The condenser fins are SHARP and can be easily damaged.

NOTICE

DO NOT use any type of cleaner on the condenser unit.

1. Remove the grill. (See MAINTENANCE)
2. Clean the condenser coil (4) using a using a soft brush with a "combing" action or vacuum cleaner. Do not touch the condenser coil.
3. Install the grill. (See MAINTENANCE)





Storage, Vacation and Moving

If not using the unit for an extended period, or otherwise stored, follow these steps completely:

⚠ WARNING

Electrical Shock Hazard. Disconnect power before servicing. Before operating, replace all panels. Failure to do so may result in death or electrical shock.

NOTICE

If the ambient temperature is expected to drop below 50°F, turn off and unplug unit, and drain all water from the unit to prevent freezing damage not covered by the warranty.

1. Remove all consumable contents from the unit.
2. Disconnect the power cord from its outlet, and leave it disconnected until the unit is returned to service.
3. Clean and dry the interior of the cabinet.
4. During periods of nonuse, the cabinet must remain open to prevent formation of mold and mildew. Open door a minimum of 2 in. (5 cm) to provide the necessary ventilation.

Product Disposal

If the unit is being removed from service for disposal, check and obey all Federal, State and or Local regulations regarding the disposal and recycling of refrigeration appliances, and follow these steps completely:

1. Remove all consumable contents from the unit.
2. Disconnect power to the unit and unplug the power cord from its outlet.

⚠ DANGER

RISK OF CHILD ENTRAPMENT. Before you throw away your old refrigerator or freezer, take off the doors and leave shelves in place so children may not easily climb inside.

3. Remove the cabinet door.

SERVICE MANUAL

U-LINE®

PRODUCT INFORMATION

Complete Installation Guides, Use and Care Guides, Specifications & Features and Benefits, CAD Drawings, Overlay Panel/Frame and Toe-Kick Specifications and Instructions, Compliance Documentation and Applicable Energy Guides are available for reference and download at u-line.com.

SERVICE INFORMATION

Please consult your Use and Care Guide for troubleshooting information. Answers to Customer Frequently Asked Questions are available at u-line.com under Customer Service. You may contact U-Line directly:

GENERAL INQUIRIES:

U-Line Corporation
P.O. Box 245040
Milwaukee, Wisconsin 53224-9540 U.S.A.
Phone 1-414-354-0300
FAX 1-414-354-7905
Email: sales@u-line.com
u-line.com

SERVICE ASSISTANCE:

Phone 1-800-779-2547
FAX 1-414-354-5696
Email: onlineservice@u-line.com
u-lineservice.com

PARTS ASSISTANCE:

E-mail: onlineparts@u-line.com

BUILDING ON THREE GENERATIONS OF INNOVATION

For nearly five decades and three generations, U-Line continues to be the leader in innovation, quality and value in the premium built-in undercounter ice making, refrigeration and wine preservation market. U-Line has captivated those with an appreciation for the finer things with exceptional functionality, style, inspired innovation and attention to even the smallest details. We are known and respected for our unwavering dedication to product design, quality and selection.

In 1962, Henry Uihlein founded U-Line Corporation as an outgrowth of Ben-Hur Freezer Company and was the first to develop and patent an automatic stand-alone undercounter residential ice maker. His foresight and determination to develop new ideas and to succeed when there were no clear guidelines or solutions are evident today. The newest Uihlein generation continues to build upon the family's innovative legacy at the Milwaukee, Wisconsin based business by providing continuity and vision from which new designs and technology continue to be born.

Today the complete U-Line product collection includes Ice Makers, Wine Captain® Models, Combo® Models, a Refrigerator / Freezer, Refrigerators, Drawers and Beverage Centers. The U-Line brand offers products in the 1000 Series, 2000 Series and the Modular 3000 Series. The 1000 Series offers a more targeted priced product with appropriate features, while the 2000 Series offers upscale features, advanced technology and specialized product families. U-Line's approach to its breadth of products, multiple price points and features allows a choice and product that will fit any lifestyle.

DESIGNED, ENGINEERED AND ASSEMBLED IN WISCONSIN, USA

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